```
=> d his

     (FILE 'HOME' ENTERED AT 15:35:12 ON 04 MAR 2003)

     FILE 'USPATFULL' ENTERED AT 15:35:20 ON 04 MAR 2003
L1             0 S TRIFULOROVALINE
L2             4 S TRIFLUOROVALINE

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
     BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
     CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
     DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 15:36:39 ON
     04 MAR 2003
               SEA HEXAFLUOROVALINE OR HOMOALLYLGLYCINE
               ---------
               1    FILE BIOBUSINESS
               9    FILE BIOSIS
               1    FILE BIOTECHABS
               1    FILE BIOTECHDS
               5    FILE BIOTECHNO
              37    FILE CAPLUS
               4    FILE DDFB
               1    FILE DDFU
               4    FILE DRUGB
               1    FILE DRUGU
              12    FILE EMBASE
               3    FILE ESBIOBASE
               3    FILE JICST-EPLUS
               2    FILE LIFESCI
               9    FILE MEDLINE
               2    FILE PASCAL
              15    FILE SCISEARCH
               7    FILE TOXCENTER
               8    FILE USPATFULL
L3              QUE HEXAFLUOROVALINE OR HOMOALLYLGLYCINE
               ---------

     FILE 'CAPLUS' ENTERED AT 15:37:49 ON 04 MAR 2003
L4            37 S L3
L5             4 S L4(P)(STABL?)

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
     BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
     CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
     DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 15:39:10 ON
     04 MAR 2003
               SEA (PENTENOIC OR TRIFLUOROLEUCINE OR HEXAFLUOROLEUCINE OR METH
               ---------
               0*   FILE ADISNEWS
               1    FILE ANABSTR
               3    FILE AQUASCI
               3    FILE BIOBUSINESS
               0*   FILE BIOCOMMERCE
              24    FILE BIOSIS
               8*   FILE BIOTECHABS
               8*   FILE BIOTECHDS
               9*   FILE BIOTECHNO
               4    FILE CABA
               2    FILE CANCERLIT
              73    FILE CAPLUS
               1*   FILE CEABA-VTB
               0*   FILE CIN
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                1    FILE CROPU
                4    FILE DDFB
                2    FILE DDFU
                4    FILE DRUGB
                3    FILE DRUGU
               14    FILE EMBASE
                6*   FILE ESBIOBASE
                0*   FILE FEDRIP
                0*   FILE FOMAD
                0*   FILE FOREGE
                0*   FILE FROSTI
                2*   FILE FSTA
               26    FILE IFIPAT
                3    FILE JICST-EPLUS
                0*   FILE KOSMET
                8    FILE LIFESCI
                0*   FILE MEDICONF
               13    FILE MEDLINE
                1*   FILE NTIS
                0*   FILE NUTRACEUT
                7*   FILE PASCAL
                0*   FILE PHARMAML
               11    FILE SCISEARCH
               16    FILE TOXCENTER
              141    FILE USPATFULL
                6    FILE USPAT2
               19    FILE WPIDS
               19    FILE WPINDEX
L6               QUE (PENTENOIC OR TRIFLUOROLEUCINE OR HEXAFLUOROLEUCINE OR METH
                 ---------

     FILE 'CAPLUS, SCISEARCH, WPIDS, EMBASE, MEDLINE' ENTERED AT 15:42:55 ON
     04 MAR 2003
L7            130 S L6
L8             94 DUP REM L7 (36 DUPLICATES REMOVED)
L9             10 S L8(P)(REPLAC?)
L10            94 S L8
L11             6 S L8(P)(STAB?)
L12            78 S (PENTENOIC OR HEXAFLUOROLEUCINE OR METHYLPENTANOIC OR TRIFLUO
L13            62 DUP REM L12 (16 DUPLICATES REMOVED)

     FILE 'USPATFULL' ENTERED AT 15:59:05 ON 04 MAR 2003
L14             5 S L6(P)(REPLAC?)

     FILE 'STNGUIDE' ENTERED AT 16:05:03 ON 04 MAR 2003

     FILE 'STNGUIDE' ENTERED AT 16:10:05 ON 04 MAR 2003

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
     BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
     CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
     DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:10:13 ON
     04 MAR 2003
                SEA L6(P)(MUTANT OR MUTATION)
               ---------
               0*   FILE ADISNEWS
               0*   FILE BIOCOMMERCE
               4    FILE BIOSIS
               3*   FILE BIOTECHABS
               3*   FILE BIOTECHDS
               1*   FILE BIOTECHNO
               2    FILE CANCERLIT
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                14   FILE CAPLUS
                 0*  FILE CEABA-VTB
                 0*  FILE CIN
                 1   FILE DDFB
                 1   FILE DRUGB
                 3   FILE EMBASE
                 1*  FILE ESBIOBASE
                 0*  FILE FEDRIP
                 0*  FILE FOMAD
                 0*  FILE FOREGE
                 0*  FILE FROSTI
                 1*  FILE FSTA
                 2   FILE IFIPAT
                 0*  FILE KOSMET
                 3   FILE LIFESCI
                 0*  FILE MEDICONF
                 4   FILE MEDLINE
                 0*  FILE NTIS
                 0*  FILE NUTRACEUT
                 0*  FILE PASCAL
                 0*  FILE PHARMAML
                 2   FILE SCISEARCH
                  SEA L6(P)(MUTANT? OR MUTATION?)
                 ---------
                 0*  FILE ADISNEWS
                 0*  FILE BIOCOMMERCE
                 6   FILE BIOSIS
                 3*  FILE BIOTECHABS
                 3*  FILE BIOTECHDS
                 1*  FILE BIOTECHNO
                 2   FILE CANCERLIT
                18   FILE CAPLUS
                 0*  FILE CEABA-VTB
                 0*  FILE CIN
                 1   FILE DDFB
                 1   FILE DDFU
                 1   FILE DRUGB
                 2   FILE DRUGU
                 3   FILE EMBASE
                 1*  FILE ESBIOBASE
                 0*  FILE FEDRIP
                 0*  FILE FOMAD
                 0*  FILE FOREGE
                 0*  FILE FROSTI
                 1*  FILE FSTA
                 2   FILE IFIPAT
                 0*  FILE KOSMET
                 3   FILE LIFESCI
                 0*  FILE MEDICONF
                 5   FILE MEDLINE
                 0*  FILE NTIS
                 0*  FILE NUTRACEUT
                 0*  FILE PASCAL
                 0*  FILE PHARMAML
                 2   FILE SCISEARCH
                 4   FILE TOXCENTER
                 2   FILE USPATFULL
                 1   FILE USPAT2
                 1   FILE WPIDS
                 1   FILE WPINDEX
L15               QUE L6(P)(MUTANT? OR MUTATION?)
                 ---------
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     FILE 'USPATFULL, CAPLUS, MEDLINE, TOXCENTER, SCISEARCH, EMBASE' ENTERED
     AT 16:12:31 ON 04 MAR 2003
L16          34 S L15
L17          21 DUP REM L16 (13 DUPLICATES REMOVED)

     FILE 'STNGUIDE' ENTERED AT 16:12:56 ON 04 MAR 2003

     FILE 'CAPLUS' ENTERED AT 16:16:39 ON 04 MAR 2003
L18           0 S HOMOALYLGLYCINE
L19          13 S HOMOALLYLGLYCINE
L20         275 S HAG
L21           0 S L20(P)(LEUCINE OR ISOLEUCINE OR VALINE)
L22          36 S HAG(P)(HOMO?)
L23          13 S L19

     FILE 'REGISTRY' ENTERED AT 16:18:34 ON 04 MAR 2003

     FILE 'CAPLUS' ENTERED AT 16:20:19 ON 04 MAR 2003
L24           1 S HEXAFLUROVALINE
L25          44 S TRIFLUOROMETHYLPENT?
L26           0 S L25(P)(VALINE OR VAL OR LEU OR LEUCINE OR ILE OR ISOLEUCINE)
L27          20 S HOMOALLYLGLYCINE OR HOMOPROPARGLY? OR FLUROPHENYLALANINE
L28           7 S L27(P)(INCORPOR? OR REPLAC?)

     FILE 'USPATFULL' ENTERED AT 16:25:18 ON 04 MAR 2003
L29          12 S L27

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
     BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
     CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
     DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:29:58 ON
     04 MAR 2003

     FILE 'CAPLUS' ENTERED AT 16:30:50 ON 04 MAR 2003
L30           1 S (PENTENOIC OR HEXAFLUOROLEUCINE OR METHYLPENTANOIC OR TRIFLUO
L31           0 S HOMOPROPARA?
L32         684 S HOMOPRO?
L33         261 S HOMOPROPAR?
L34         261 S HOMOPROPARG?
L35           1 S HOMOPROPARGLYCINE
L36           2 S HOMOPROPARGLY?

     FILE 'STNGUIDE' ENTERED AT 16:34:07 ON 04 MAR 2003

     FILE 'STNGUIDE' ENTERED AT 16:34:22 ON 04 MAR 2003

     FILE 'USPATFULL' ENTERED AT 16:34:25 ON 04 MAR 2003
L37           3 S HOMOPROPARGLY?

     FILE 'STNGUIDE' ENTERED AT 16:36:32 ON 04 MAR 2003
L38           0 S (PENTENOIC OR HEXAFLUOROLEUCINE OR METHYLPENTANOIC OR TRIFLUO

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
     BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
     CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
     DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:37:49 ON
     04 MAR 2003
               SEA (PENTENOIC OR HEXAFLUOROLEUCINE OR METHYLPENTANOIC OR TRIFL
              ---------
              0*  FILE ADISNEWS
              0*  FILE BIOCOMMERCE
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                4   FILE BIOSIS
                1*  FILE BIOTECHABS
                1*  FILE BIOTECHDS
                2*  FILE BIOTECHNO
                1   FILE CANCERLIT
               21   FILE CAPLUS
                0*  FILE CEABA-VTB
                0*  FILE CIN
                 SEA (PENTENOIC OR HEXAFLUOROLEUCINE OR METHYLPENTANOIC OR TRIFL
                ---------
                0*  FILE ADISNEWS
                0*  FILE BIOCOMMERCE
                4   FILE BIOSIS
                1*  FILE BIOTECHABS
                1*  FILE BIOTECHDS
                2*  FILE BIOTECHNO
                1   FILE CANCERLIT
               21   FILE CAPLUS
                0*  FILE CEABA-VTB
                0*  FILE CIN
                3   FILE EMBASE
                2*  FILE ESBIOBASE
                0*  FILE FEDRIP
                0*  FILE FOMAD
                0*  FILE FOREGE
                0*  FILE FROSTI
                0*  FILE FSTA
                4   FILE IFIPAT
                0*  FILE KOSMET
                3   FILE LIFESCI
                0*  FILE MEDICONF
                3   FILE MEDLINE
                0*  FILE NTIS
                0*  FILE NUTRACEUT
                0*  FILE PASCAL
                0*  FILE PHARMAML
                4   FILE SCISEARCH
                3   FILE TOXCENTER
                2   FILE USPATFULL
                2   FILE WPIDS
                2   FILE WPINDEX
L39              QUE (PENTENOIC OR HEXAFLUOROLEUCINE OR METHYLPENTANOIC OR TRIFL
                ---------

     FILE 'USPATFULL, WPIDS' ENTERED AT 16:39:35 ON 04 MAR 2003
L40            4 S L39
L41            4 DUP REM L40 (0 DUPLICATES REMOVED)

     FILE 'CAPLUS, MEDLINE, EMBASE' ENTERED AT 16:40:12 ON 04 MAR 2003
L42           27 S L39
L43           22 DUP REM L42 (5 DUPLICATES REMOVED)

     FILE 'STNGUIDE' ENTERED AT 16:40:56 ON 04 MAR 2003
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AN 1999:132308 CAPLUS
DN 130:252652
TI Covalent capture and stabilization of cylindrical .beta.-sheet peptide assemblies
AU Clark, Thomas D.; Kobayashi, Kenji; Ghadiri, M. Reza
CS Departments of Chemistry and Molecular Biology and The Skaags Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SO Chemistry--A European Journal (1999), 5(2), 782-792
CODEN: CEUJED; ISSN: 0947-6539
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
RE.CNT 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
AB The utility of noncovalent approaches to mol. self-assembly is often limited by kinetic instability of the resulting constructs. In an effort to surmount this difficulty, noncovalent interactions between self-assembling cyclic peptide subunits were employed to direct covalent bond formation, resulting in cylindrical .beta.-sheet dimers that are both kinetically and thermodynamically stable. In the two peptide systems examd., intersubunit hydrogen bonding serves important but distinct functions. For olefin metathesis of **homoallylglycine** (Hag)-bearing peptide cyclo[(-L-Phe-D-MeAla-L-Hag-D-MeAla)2], hydrogen bonding drives the reaction by increasing olefin effective molarity. In contrast, for disulfide isomerization of monomeric cystine peptide bicyclo[(-L-Phe-D-MeAla-L-Cys-D-MeAla)2], hydrogen bonding appears to control partitioning between two alternative disulfide-bonded dimers by contributing to the stability of the hydrogen-bonded isomer. The proposed mechanism for the latter transformation is reminiscent both of thiol-catalyzed unscrambling of RNase A and oxidative refolding pathways of natural proteins and protein fragments.
ST cylindrical beta sheet cystine cyclopeptide assembly formation; **homoallylglycine** cyclopeptide cylindrical beta sheet assembly formation; hydrogen bond cyclopeptide supramol assembly dimerization

L23 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS

L46 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 1987:214372 CAPLUS
DN 106:214372
TI Long-acting angiotensin II inhibitors containing hexafluorovaline in position 8
AU Hsieh, Kun Hwa; Needleman, Philip; Marshall, Garland R.
CS Health Sci. Cent., Univ. Colorado, Denver, CO, 80262, USA
SO Journal of Medicinal Chemistry (1987), 30(6), 1097-100
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
OS CASREACT 106:214372
IT **107496-51-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and deblocking of)

L46 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 1981:491357 CAPLUS
DN 95:91357
TI Synthesis of fluorine-containing peptides. Analogs of angiotensin II containing hexafluorovaline
AU Vine, William H.; Hsieh, Kun-Hwa; Marshall, Garland R.
CS Sch. Med., Washington Univ., St. Louis, MO, 63110, USA
SO Journal of Medicinal Chemistry (1981), 24(9), 1043-7
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
AB .gamma.,.gamma.,.gamma.,.gamma.',.gamma.',.gamma.'-Hexafluorovaline (Hfv) and derivs. were prepd. and incorporated into angiotensin II (AII) by fragment condensation and solid-phase peptide synthesis. Hexafluorovaline derivs. showed general resistance toward various enzymic digestions and the tendency to racemize extensively upon carboxyl activation. When the angiotensin II analogs were assayed on rat uterus, [Hfv5]AII [78164-96-2] had 133% activity, [D-Hfv5]AII [78164-97-3] was inactive, and [Ac-Asn1, Val5, DL-Hfv8]AII [**78164-98-4**] was a potent inhibitor of 5-valine-angiotensin II [58-49-1] in vitro and in vivo.
IT 78164-96-2P 78164-97-3P **78164-98-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and biol. activity of)
IT 78164-90-6P **78181-64-3P 78181-65-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L17 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 6
AN 1974:447346 CAPLUS
DN 81:47346
TI Pleiotropy of hisT mutants blocked in pseudouridine synthesis in tRNA. Leucine and isoleucine-valine operons
AU Cortese, Riccardo; Landsberg, Raymond; Vonder Haar, R. A.; Umbarger, H. E.; Ames, Bruce N.
CS Biochem. Dep., Univ. California, Berkeley, CA, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1974), 71(5), 1857-61
CODEN: PNASA6; ISSN: 0027-8424
DT Journal
LA English
AB The hisT gene codes for an enzyme responsible for the conversion of uridine to pseudouridine (.PSI.) in the anticodon region of many tRNA species in Salmonella typhimurium. The chromatog. behavior of all tRNALeu and 1 tRNAIle species from a hisT **mutant** were altered. By contrast, tRNAVal, which contains no .PSI. except for one in the T.PSI.CG sequence, was chromatog. unaltered. In hisT **mutants** the regulation of the leucine and the isoleucine and **valine** operons was affected. The enzymes of these operons were refractory to repression by the branched chain amino acids. However, there was no difference between hisT and wild type in the pattern of derepression caused by isoleucine or **valine** limitation and only a slight difference in the enzyme levels in cells grown on minimal medium. The alteration in the regulation of branched chain amino acid operons may explain the resistance of hisT **mutants** to 5,5,5-**trifluoroleucine**, .beta.-hydroxyleucine, and norleucine and to the oligopeptides glycylglycylnorleucine and norleucylnorleucine.

L13 ANSWER 39 OF 62 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 9
AN 1979:608178 CAPLUS
DN 91:208178
TI A comparison of protein synthesis by liver parenchymal cells isolated from Fischer F344 rats of various ages
AU Coniglio, John J.; Liu, Daniel S. H.; Richardson, Arlan
CS Dep. Chem., Illinois State Univ., Normal, IL, 61761, USA
SO Mechanisms of Ageing and Development (1979), 11(2), 77-90
CODEN: MAGDA3; ISSN: 0047-6374
DT Journal
LA English
AB The body wt. of 2.5-30-mo-old male rats reached a max at 12 mo (408 g), then decreased through 30 mo (336 g). Liver wt. increased steadily from 2 mo (10.4g) to 30 mo (14.6 g). The protein and RNA content of the liver fluctuated with age and no significant trend was obsd. The DNA content increased with age, from 2.03 mg/g liver at 2 mo. to 2.47 mg/g liver at 30 mo. **Valine** incorporation into protein by isolated liver parenchymal cells (ILPC) decreased from 120.7 pmol/min/mg protein (units) at 2.5 mo to 67.6 units at 18 mo of age. The rate of protein synthesis then increased to 80.0 units at 30 mo. The age-related decrease in protein synthesis appeared to be due to a general decrease in protein synthesis rather than to a decrease in a particular protein. The ribosomal half-transit times of polypeptide synthesis by ILPC were 1.46 min in 4-mo-old rats and 2.4 in 18-mo-old rats. Thus, the translation of mRNA by ribosomes occurred at a slower rate in ILPC of 18-mo-old rats than of 4-mo-old rats. Incorporation of the amino acid analog, p-**fluorophenylalanine**-14C (I) into protein was lower in ILPC from 18-mo-old rats (254 dpm/mg protein) than from 4-mo-old rats (343 dpm/mg protein). The rate of protein synthesis, measured as the incorporation of **valine**-2,3-3H2 (II) into protein, decreased from 4 mo (3424 dpm/mg protein) to 18 mo (2443 dpm/mg protein). The I/II incorporation ratio was 0.10 for ILPC from 4- and 18-mo-old rats. Thus, no age-related change in the frequency of errors due to the substitution of I for phenylalanine was obsd.